UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Bey 1459.

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

#### NOTICE OF ALLOWANCE AND FEE(S) DUE

21186 7590 1229/2008 SCHWEGMAN, LUNDBERG & WOESSNER, P.A. P.O. BOX 2938 MINNEAPOLIS. MN 55402

EXAMINER					
BUI, DUNG H					
ART UNIT	PAPER NUMBER				
1797	•				
DATE MAILED: 12/29/2008					

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY	DOCKET NO.	CONFIRMATION	NO.
10/542,617		12/28/2005		Mikael Forslund			1876.137US1 7333		
	TITLE OF INVENTION:	FILTER STRUCTUR	E. FILTER PANEL	COMPRISING TH	E FILTER	STRUCTURE .	AND METH	OD FOR	

APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE

APPLICATION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS.

THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM

WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW

# HOW TO REPLY TO THIS NOTICE:

DUE.

MANUFACTURING THE FILTER STRUCTURE

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth	or transmitting ig the Patent, ad ierwise in Block	lvance o	rders and notification of a) specifying a new corre	maintenance fees w spondence address;	ill be and/or	mailed to the current r (b) indicating a sepa	correspondence address a trate "FEE ADDRESS" fo
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bi	ock 1 for any change of	of address)	No Fee pag hav	te: A certificate of p(s) Transmittal. This pers. Each additionate te its own certificate	mailings certil I paper of ma	g can only be used for ficate cannot be used for such as an assignmental iling or transmission.	or domestic mailings of the for any other accompanying nt or formal drawing, mus
SCHWEGMAI P.O. BOX 2938 MINNEAPOLIS	7590 12/29 N, LUNDBERG & S, MN 55402		ER, P.	Α τω	Cer	tificate	of Mailing or Trans	
								(Depositor's name)
				_				(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR	R.	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/542,617 TITLE OF INVENTI MANUFACTURING TE			ER PAI	Mikael Forslund NEL COMPRISING T	HE FILTER STI	RUCTU	1876.137US1 URE AND METHO	7333 DD FOR
APPLN. TYPE	SMALL ENTITY	ISSUE FEE I	DUE	PUBLICATION FEE DUE	PREV. PAID ISSUI	S FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510		\$300	\$0		\$1810	03/30/2009
EXAM	INER	ART UNI	Т	CLASS-SUBCLASS	1			
BUI, D	UNG H	1797		096-154000	-			
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach	nge of Correspon  Indication form ed. Use of a Cus	ndence stomer	2. For printing on the (I) the names of up to or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent attilisted, no name will be THE PATENT (print or ty data will appear on the 1T a substitute for filing an	o 3 registered patentively, le firm (having as a agent) and the namorneys or agents. If e printed.  ppe)	memb es of u no nan	p to 2	ocument has been filed fo
	iate assignee category or	categories (will			Individual 🗖 Co	orporati	ion or other private gro	oup entity Government
Advance Order -	To small entity discount p		4	b. Payment of Fee(s): (Ple A check is enclosed. Payment by credit ca The Director is hereb overpayment, to Dep	rd. Form PTO-2038	is atta	iched.	ficiency, or credit any n extra copy of this form).
	s SMALL ENTITY state	is. See 37 CFR I		b. Applicant is no los				
interest as shown by the	records of the United Sta	tes Patent and Tr	rademark	Office.	ик аррисан, а геді	sicred.	attorney or agent; or tr	ne assignee or other party is
Authorized Signature					Date			
Typed or printed name					Registration N			
This collection of inform an application. Confident submitting the completes this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but friginia 22313-1450. DC 13-1450.	FR 1.311. The ir U.S.C. 122 and USPTO. Time den, should be s NOT SEND FF	nformati 37 CFR will vary sent to th EES OR	on is required to obtain or 1.14. This collection is es depending upon the indi e Chief Information Offic COMPLETED FORMS T	retain a benefit by t stimated to take 12 i vidual case. Any co er, U.S. Patent and O THIS ADDRESS	he pub minute: mment Trader i. SEN	lic which is to file (and is to complete, including its on the amount of the nark Office, U.S. Dep D TO: Commissioner	I by the USPTO to process ig gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



## UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/542,617	12/28/2005	Mikael Forslund	1876.137US1	7333	
21186 7	590 12/29/2008		EXAM	UNER	
SCHWEGMAN.	LUNDBERG & WO	BUI, DUNG H			
P.O. BOX 2938		ART UNIT	PAPER NUMBER		
MINNEAPOLIS,	MN 55402	1797			
		DATE MAILED: 12/29/2008			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 566 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 566 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

### Application No. Applicant(s) 10/542.617 FORSLUND, MIKAEL Notice of Allowability Examiner Art Unit DUNG BUIL 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 11/17/08. The allowed claim(s) is/are 1-4 and 6-32. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) X All b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. \( \overline{\text{Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. ☐ Examiner's Amendment/Comment Paper No./Mail Date 7-18-05 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material Other .

Application/Control Number: 10/542,617

Art Unit: 1797

#### DETAILED ACTION

 Applicant's election with traverse of Group I, claims 1-16 and 26-31 in the reply filed on November 17<sup>th</sup>, 2008 is acknowledged. The traversal is persuasive and withdrew the restriction requirement and rejoined because the claims were amended to overcome restriction requirement.

# Allowable Subject Matter

- Claims 1-4 and 6-32 are allowed.
- The following is an examiner's statement of reasons for allowance:
   Groeger (US 5,662,728) and McDowell (US 3,175,339) have been determined to be the closest prior art of record.

As to independent claims 1 and 17, Groeger (US 5,662,728) fails to suggest a motivation for using ion exchange particles distributed within a fibrous framework of the filter structure that has been swelled for the ion exchange particles and causes a permanent expansion of the filter structure, the moisture treatment comprising exposure to a humid or water-containing environment. Claims 2-4 and 6-16 are depend on claim 1, they also contain allowable subject matter. Claims 18-32 are depend on claim 17, they also contain allowable subject matter.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 1797

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DUNG BUI whose telephone number is (571)270-7077. The examiner can normally be reached on Mon. - Thurs., 7:30 a.m.-5 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571)272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Duane S. Smith/ Supervisory Patent Examiner, Art Unit 1797